

# VIRGINIA

## Science and Engineering Profile

	VA	U.S.	Rank		VA	U.S.	Rank
Doctoral scientists, 1995	13,682	453,928	10	Total R&D performance, 1995 (millions)	\$3,897	\$177,210	14
Doctoral engineers, 1995	2,901	86,738	10	Industry R&D, 1995 (millions)	\$1,577	\$130,332	19
S&E doctorates awarded, 1996	634	27,230	14	Academic R&D, 1995 (millions)	\$447	\$21,606	15
of which, in engineering	25%	23%		of which, in life sciences	52%	55%	
in life sciences	19%	25%		in engineering	17%	16%	
in psychology	16%	13%		in environmental sciences	13%	6%	
S&E postdoctorates, 1995	592	35,379	19	Higher education current-fund expenditures, 1995 (millions)	\$4,289	\$182,602	12
in doctorate-granting institutions							
S&E graduate students, 1995	13,014	436,328	10	Number of SBIR awards, 1990-1996	1,413	26,399	3
in doctorate-granting institutions				Patents issued to state residents, 1996	859	61,099	21
Population, 1996 (000s)	6,675	269,067	12	Gross state product, 1994 (billions)	\$177.7	\$6,876.0	13
Civilian labor force, 1996 (000s)	3,389	135,528	12	of which, agriculture	1%	2%	
Personal income per capita, 1996	\$24,925	\$24,231	15	manufacturing, mining, construction	20%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1996 (millions)	\$50,302	\$1,368,858	7	wholesale and retail trade	14%	16%	
R&D obligations, 1995 (millions)	\$3,603	\$67,080	5	finance, insurance, real estate	17%	19%	
				services	19%	20%	
				government	20%	13%	

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Virginia by Agency and Performer: Fiscal Year 1995

[Thousands of Dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	3,603,023	1,580,530	236,503	1,534,313	206,554	41,651	3,472	5
<b>Department of Agriculture</b>	12,129	787	0	0	10,074	1,177	91	37
<b>Department of Commerce</b>	36,758	5,384	0	27,404	3,801	50	119	9
<b>Department of Defense</b>	2,549,556	1,244,189	168,120	1,097,499	31,792	7,956	0	4
<b>Department of Energy</b>	93,285	9,704	59,031	12,364	7,257	4,929	0	14
<b>Dept. of Health &amp; Human Services</b>	146,354	1,306	0	36,964	98,639	8,209	1,236	20
<b>Department of the Interior</b>	51,152	40,663	0	9,873	567	49	0	1
<b>Department of Transportation</b>	55,657	9,592	9,088	32,991	1,728	250	2,008	4
<b>Environmental Protection Agency</b>	33,901	0	0	31,853	1,165	883	0	4
<b>Nat'l Aeronautics &amp; Space Admin.</b>	563,187	267,607	0	265,384	20,846	9,332	18	4
<b>National Science Foundation</b>	61,044	1,298	264	19,981	30,685	8,816	0	11
<b>State rank</b>	5	4	6	6	19	14	23	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable